

IN THE CLAIMS

1-3. (canceled) .

4. (currently amended)      A method for ~~reducing sequencing errors by~~ sequencing, ~~recovering and resequencing a single-stranded template~~ nucleic acid, the method comprising:
- (a) forming an array of immobilised single-stranded template nucleic acid molecules wherein the density of immobilised single-stranded template nucleic acid molecules is  $10^6$ - $10^9$  different template sequences per  $\text{cm}^2$ ;
  - (b) determining the sequences of the immobilised single-stranded template nucleic acid molecules by synthesising a complementary copy of the template sequences, thereby performing a first round of sequencing;
  - (c) removing the complementary copy of the template sequence ~~synthetic strand~~; and
  - (d) performing a second round of sequencing of the immobilised single-stranded template nucleic acid molecules, ~~and wherein comparison of~~
  - (e) comparing the first and second rounds of sequencing of each immobilized single-stranded template nucleic acid molecule to confirm sequencing data ~~reduces sequencing errors.~~

5-26. (canceled).

27. (currently amended)      The method of claim 4, wherein the template nucleic acid molecules ~~polynucleotides~~ are attached to a double stranded anchor.

- 28 (currently amended)      The method of claim ~~27~~ 28, wherein the double stranded anchor comprises a self complementary hairpin.

- 29 (previously presented)     The method of claim 27, wherein the double stranded anchor comprises a recognition site for a restriction endonuclease.
- 30 (previously presented)     The method of claim 4, wherein the  $10^6$ - $10^9$  templates are individually resolvable single molecules.
- 31 (previously presented)     The method of claim 4, wherein the sequencing determination is carried out using cycles of incorporation and detection of fluorescently labeled nucleotides.
- 32 (previously presented)     The method of claim 31, wherein the fluorescent nucleotides are detected using a microscope with total internal reflection based imaging.
33. (new)     The method of claim 4, wherein said synthesizing a complementary copy of the template sequences comprises employing a polymerase enzyme to synthesize a complementary strand on the template strand one base at a time.